



**it's cool to be safe**  
explosion proof solution for the global market



## SUPER POWER

The equipment we introduce in this catalogue are designed to satisfy most of our clients' requirements to POWER explosion proof electrical equipment.

All the equipment are manufactured using the latest technologies, both mechanical and electrical, using materials able to resist in most highly corrosive environment and to ensure a modern functionality solution and a long duration of investment.



## SWE - SWAE - SCE - PE

SWE - SWAE - SCE - PE series sockets and plugs are normally used in the chemical and petrochemical plants, offshore platforms, refineries and any other industries where hazardous atmospheres are potentially present.



## Function

The PLUGS - SOCKETS range is used for power supply of control and electrical installations, machineries and other equipment that need to be moved often for operational and/or maintenance reasons.

The explosion-proof plugs PE series have been designed to be used, in the safe area, in combination with industrial sockets built in conformity to International Standards IEC60309, so to facilitate the power supply of explosion proof equipment connected also in the safe area (e.g. for maintenance purposes) without the necessity to have a dedicated socket. On the other side, the explosion-proof socket SWE - SWAE and SCE series have been designed to disable the insertion of an industrial plug so as to avoid any risk of supplying power inside a hazardous area to a non-protected electrical equipment.

## Construction

The materials used to manufacture the PLUGS & SOCKETS series have been studied to grant the maximum protection against the highly corrosive agents present in these plants:

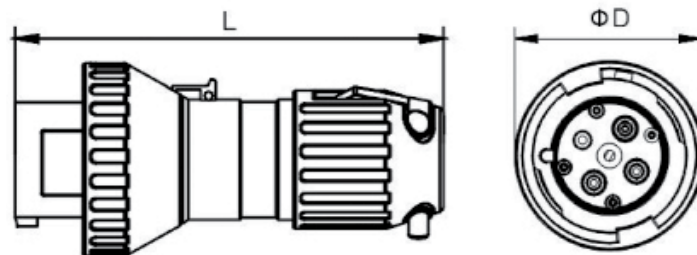
- the body in glass fiber reinforced polyester (GRP), provides a very high mechanical strength together with a good resistance against the UV ray effects;
- the gasket on cover grants an IP66 protection level ;
- the internal electrical components are fully sealed so as to prevent any corrosive action that could cause electrical faults;
- the wall type sockets SWE-SWAE series (all sizes) have two cable entries to allow a loop-in loop-out installation.
- all the wall type sockets SWE-SWAE series are equipped, as standard, with one stopping plugs ATEX certified and with an internal brass connecting plate.
- the wall type SWE - SWAE series and coupler type sockets SCE series can be protected with a padlock to avoid unauthorized connections.



*The plugs and sockets have been provided with a self-cleaning system. An elastic shutter type spring casing has been installed in the inserting sleeve of the socket which ensures low contact resistance and low temperature rise while reducing the inserting and pulling-out force.*

## PE plug

code	voltage	colour	poles			L	Ø	Kg
PE 463B	200 - 250V	●	4	3P +	⊕	262	111	0.85
PE 463R	380 - 415V	●	4	3P +	⊕	262	111	0.85
PE 463X	480 - 500V	●	4	3P +	⊕	262	111	0.85
PE 463Z	600 - 690V	●	4	3P +	⊕	262	111	0.85
PE 563R	200 - 250V 380 - 415V	●	5	3P + N +	⊕	262	111	0.85

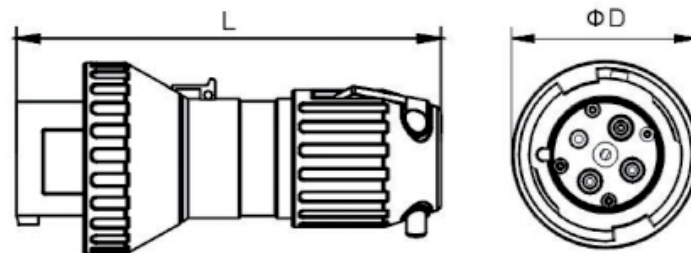


## Protection and electrical data

certificate number:	DNV 12 ATEX 2156
marking:	⊕ II 2G Ex de II C T6~T5 Gb
category:	suitable for Zone 1 – 21 (gas)
ambient temperature:	-40°C +40°C~55°C
degree of protection:	IP66
rated current:	63A
rated voltage:	up to 690V
rated switch capacity:	AC3 200V to 690V/63A
terminals:	2 x 16mm <sup>2</sup> (Socket) 1 x 16mm <sup>2</sup> (Plug) 2 x 2.5mm <sup>2</sup> (AUX)
cable entries:	2 x M50x1.5 (Wall Socket) - Wall Socket Unit c/w one brass plug
cable diameters:	15~35mm (Plug)
standards:	EN60079-0 / EN60079-1 / EN60079-7
conformity:	Directive ATEX 94/9/EC

## PE plug

code	voltage	colour	poles		L	Ø	Kg
PE 4125B	200 - 250V		4	3P +	298	121	1.3
PE 4125R	380 - 415V		4	3P +	298	121	1.3
PE 4125X	480 - 500V		4	3P +	298	121	1.3
PE 4125Z	600 - 690V		4	3P +	298	121	1.3
PE 5125R	200 - 250V 380 - 415V		5	3P + N +	298	121	1.3

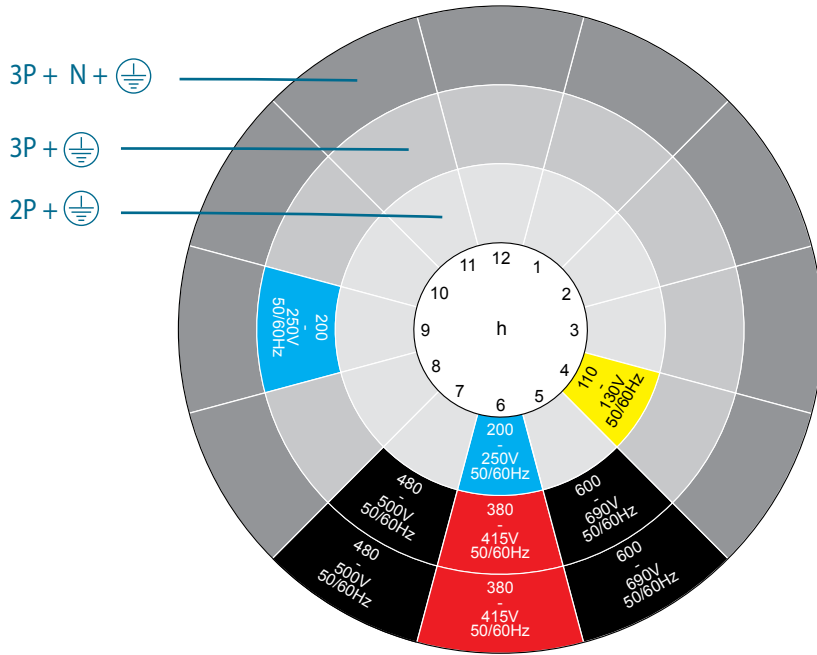


## Protection and electrical data

certificate number:	DNV 12 ATEX 2156
marking:	Ⓔ II 2G Ex de II CT5 Gb
category:	suitable for Zone 1 - 21 (gas)
ambient temperature:	-40°C +45°C
degree of protection:	IP66
rated current:	125A
rated voltage	up to 690V
rated switch capacity:	AC3 200V to 690V/125A
terminals:	2 x 50mm <sup>2</sup> (Socket) 2 x 25mm <sup>2</sup> (Socket Earthing) 1 x 50mm <sup>2</sup> (Plug) 1 x 25mm <sup>2</sup> (Plug Earthing) 2 x 2.5mm <sup>2</sup> (AUX)
cable entries:	2 x M63x1.5 (Wall Socket) - Wall Socket Unit c/w one brass plug
cable diameters:	20~57mm (Plug)
standards:	EN60079-0 / EN60079-1 / EN60079-7
conformity:	Directive ATEX 94/9/EC



## Clock position & Colours



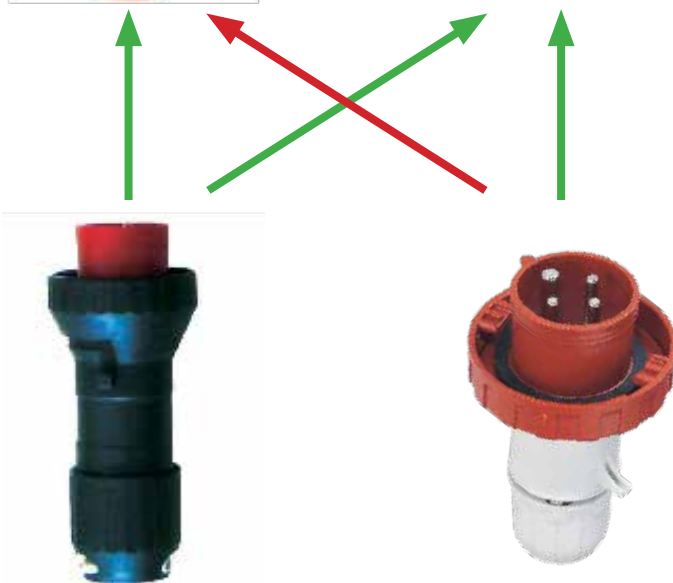
PLUGS & SOCKETS for industry are designed in conformity to the International Standards IEC 60309.

When selecting plugs and sockets in the present range of standard for manufacturing, the circular socket and plug should be selected of clock and colour according to different voltage, current and number of poles.

Ex-Proof Socket



Industrial Socket



Ex-Proof Plug

Industrial Plug

## YES / NO connections

The connection scheme between explosion proof and industrial plugs and sockets is this one herein illustrated.

The explosion proof plug can be inserted into the industrial socket but the insertion of industrial plug into the explosion proof socket will not be allowed.



Connection Allowed



Connection Not Allowed